

FIG. 1

200

CLIENT DEVICE AND SERVER DEVICE ENTER INTO A DATA COMMUNICATIONS SESSION (E.G., HTTP WEB BROWSING SESSION)

201

DETECT, IN THE DATA COMMUNICATIONS SESSION BETWEEN THE CLIENT DEVICE AND THE SERVER DEVICE, A REQUIREMENT FOR AUTHENTICATION OF A REQUEST FOR DATA SENT FROM THE CLIENT DEVICE TO THE SERVER DEVICE

202

CREATE AN AUTHENTICATION RESPONSE TO THE AUTHENTICATION REQUEST, THE AUTHENTICATION RESPONSE CONTAINING AUTHENTICATION INFORMATION REQUIRED BY THE SERVER DEVICE TO ALLOW THE CLIENT DEVICE TO ACCESS DATA VIA THE SERVER DEVICE

203

INSERT THE AUTHENTICATION RESPONSE INTO THE DATA COMMUNICATION SESSION BETWEEN THE CLIENT DEVICE AND THE SERVER DEVICE (E.G., FORWARD AUTHENTICATION RESPONSE TO SERVER DEVICE FROM DATA COMMUNICATIONS DEVICE)

204

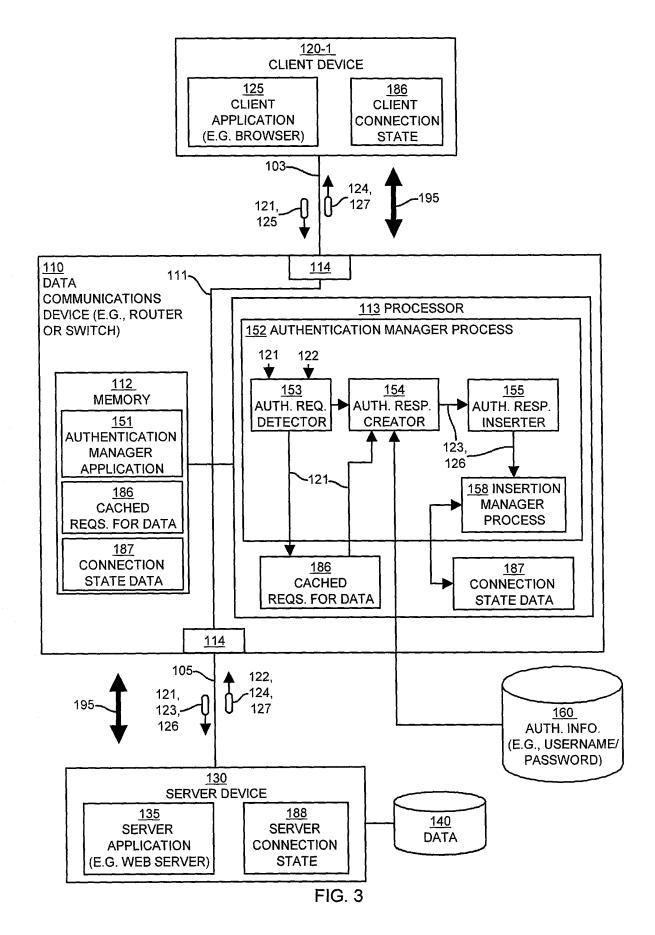
MAINTAIN THE DATA COMMUNICATIONS SESSION BETWEEN THE SERVER DEVICE AND THE CLIENT DEVICE AFTER INSERTING THE AUTHENTICATION RESPONSE INTO THE DATA COMMUNICATIONS SESSION BETWEEN THE CLIENT DEVICE AND THE SERVER DEVICE (E.G., MAINTAIN CONNECTION IN THE PRESENCE OF THE INSERTED AUTHENTICATION RESPONSE DATA)

205

MAINTAIN CONNECTION STATE DATA IN THE DATA COMMUNICATION DEVICE THAT TRACKS AN AMOUNT OF EXTRA DATA ASSOCIATED WITH THE AUTHENTICATION RESPONSE THAT IS INSERTED INTO THE DATA COMMUNICATION SESSION BETWEEN THE CLIENT AND SERVER DEVICES

206

MODIFY CONNECTION INFORMATION WITHIN PACKETS PASSING THROUGH THE DATA COMMUNICATIONS DEVICE THAT ARE EXCHANGED BETWEEN THE CLIENT DEVICE AND THE SERVER DEVICE USING THE DATA COMMUNICATIONS SESSION IN ORDER TO ALLOW THE CLIENT AND SERVER DEVICE TO MAINTAIN PROPER RESPECTIVE CONNECTION STATES FOR THE DATA COMMUNICATIONS SESSION REGARDLESS OF THE AMOUNT OF EXTRA DATA ADDED IN THE DATA COMMUNICATIONS SESSION DUE TO INSERTION OF THE AUTHENTICATION RESPONSE



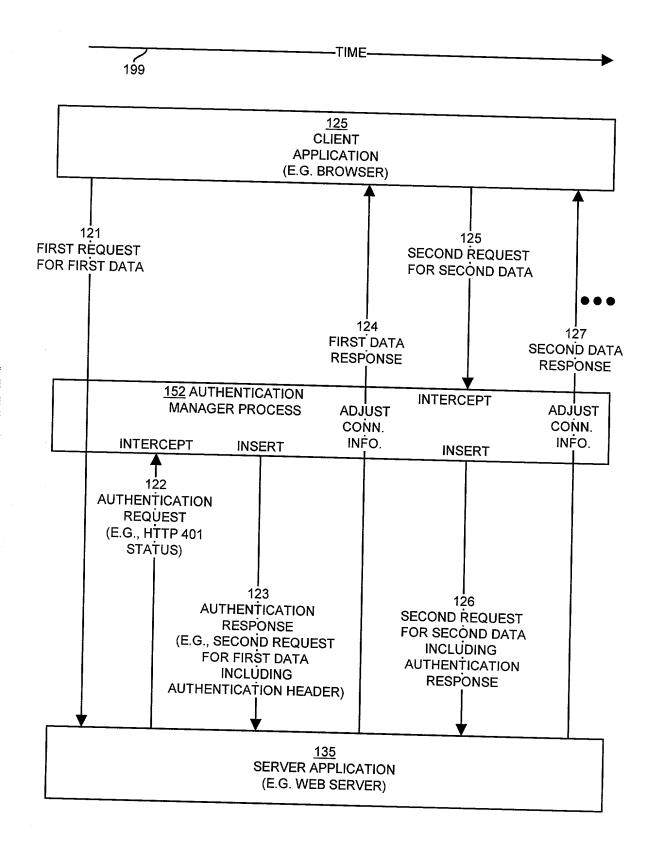


FIG. 4

FIG. 5

FROM STEP 301 IN FIG. 5 (I.E., MESSAGE = AUTHENTICATION REQUEST SENT FROM SERVER DEVICE)

309

OBTAIN, FROM THE CACHE OF REQUESTS FOR DATA, A CACHED CLIENT REQUEST FOR DATA ASSOCIATED WITH THE AUTHENTICATION REQUEST (E..G, EITHER THE MOST RECENT CLIENT REQUEST FORWARDED TO THE SERVER OVER THIS DATA COMMUNICATIONS SESSION, OR A CACHED REQUEST FOR DATA

310

OBTAIN AUTHENTICATION INFORMATION ASSOCIATED WITH THE CLIENT DEVICE FROM WHICH THE CACHED REQUEST FOR DATA ORIGINATED

311

SELECT AUTHENTICATION INFORMATION BASED ON AT LEAST ONE OF AN ADDRESS OF THE CLIENT DEVICE, AN ADDRESS OF THE SERVER DEVICE, A TYPE OF DATA REQUESTED BY THE CLIENT DEVICE, A PROTOCOL USED FOR REQUESTING THE DATA

TO STEP 304 IN FIG. 5

FIG. 6